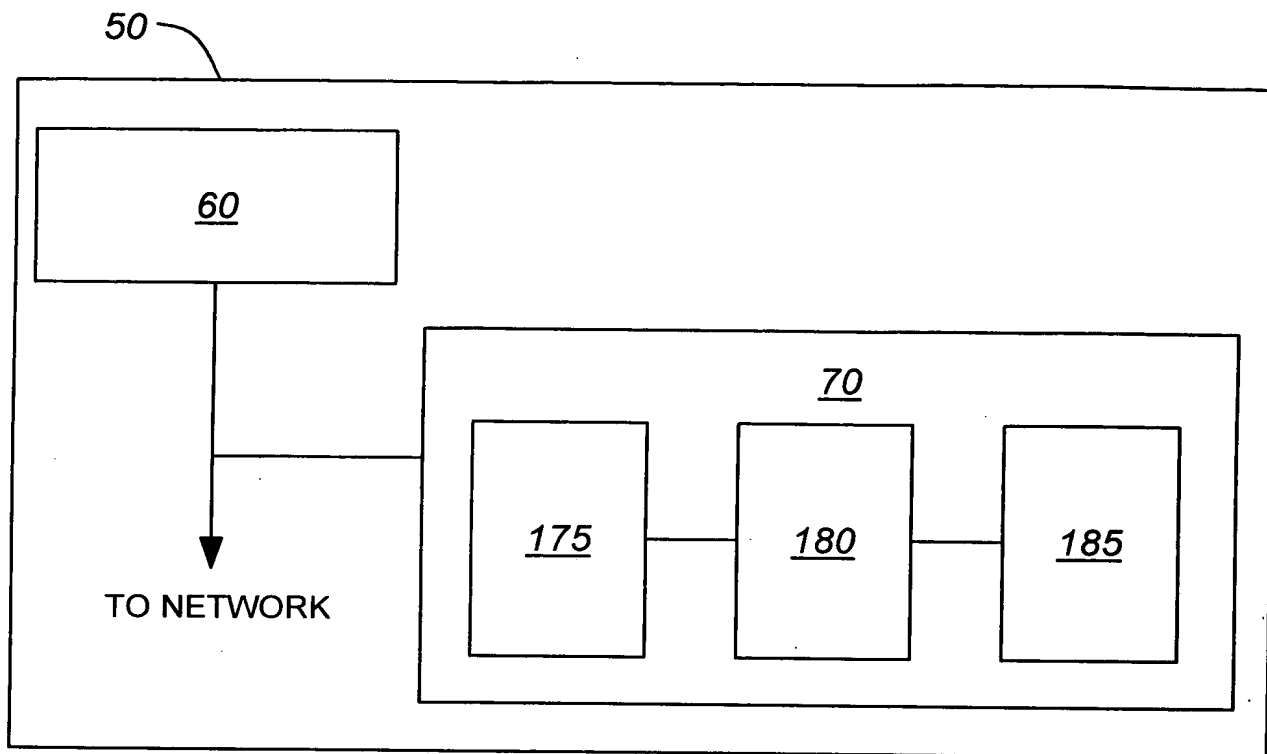
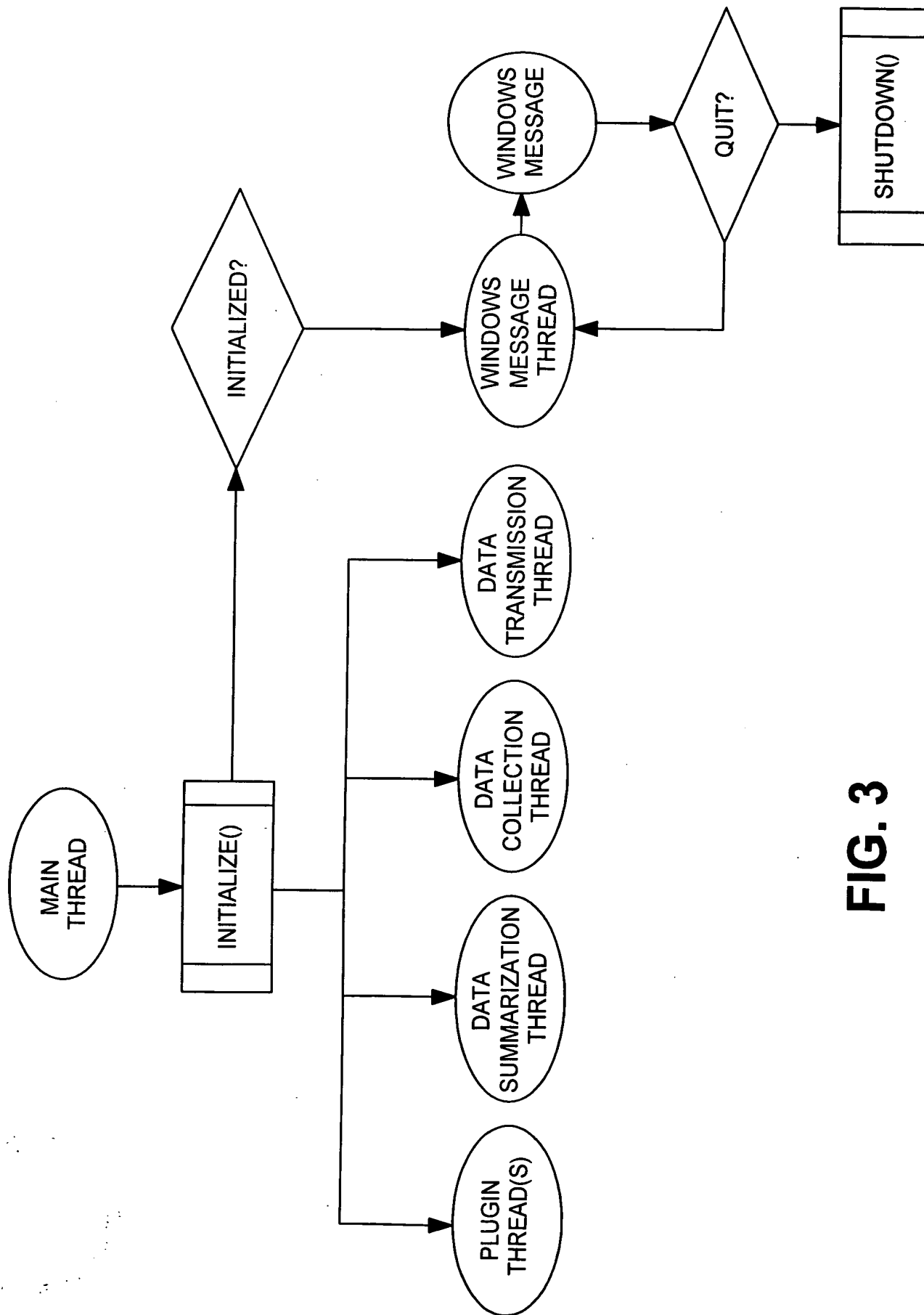


**FIG. 1**



**FIG. 2**



**FIG. 3**



Packet Size: 1200  
pid: 340  
threadId: 368  
timeStamp: 952372115  
state: 2  
clientCookie.versionMajor: 1  
clientCookie.clientCookie.versionMinor: 2  
clientCookie.source: webHancer  
clientCookie.clientId: 3439438016167880896952357565  
clientPostCode:  
clientIpAddr: 167880896  
dnsLookupTime: 0  
connectionDelay: 10  
clientMaxAccessSpeed: 818000  
userAgent: Mozilla/4.0(compatible;MSIE 5.0;Windows NT;DigExt)  
usingProxy: 1  
host: www.yahoo.com  
hostIpAddr: 3439438016  
httpMethod: 0  
target:/  
referrer:  
httpResponse: 200  
numFramesetPages: 0  
numPageGets: 4  
numGetRequestsSent: 4  
numGetResponsesReceived: 4  
numOkResponses: 4  
numOkCachedResponses: 3  
numMovedPermanentlyResponses: 0  
numNotModifiedResponses: 0  
numNotFoundResponses: 0  
numSuccessResponses: 4  
numClientErrorResponses: 0  
numServerErrorResponses: 0  
numBytesSent: 1160  
numBytesReceived: 20070  
numApplicationBytes: 0  
numImageBytes: 7413  
numTextHtmlBytes: 11768  
numTextPlainBytes: 0  
numTextXmlBytes: 0  
numTextOtherBytes: 0

**FIG. 5A**

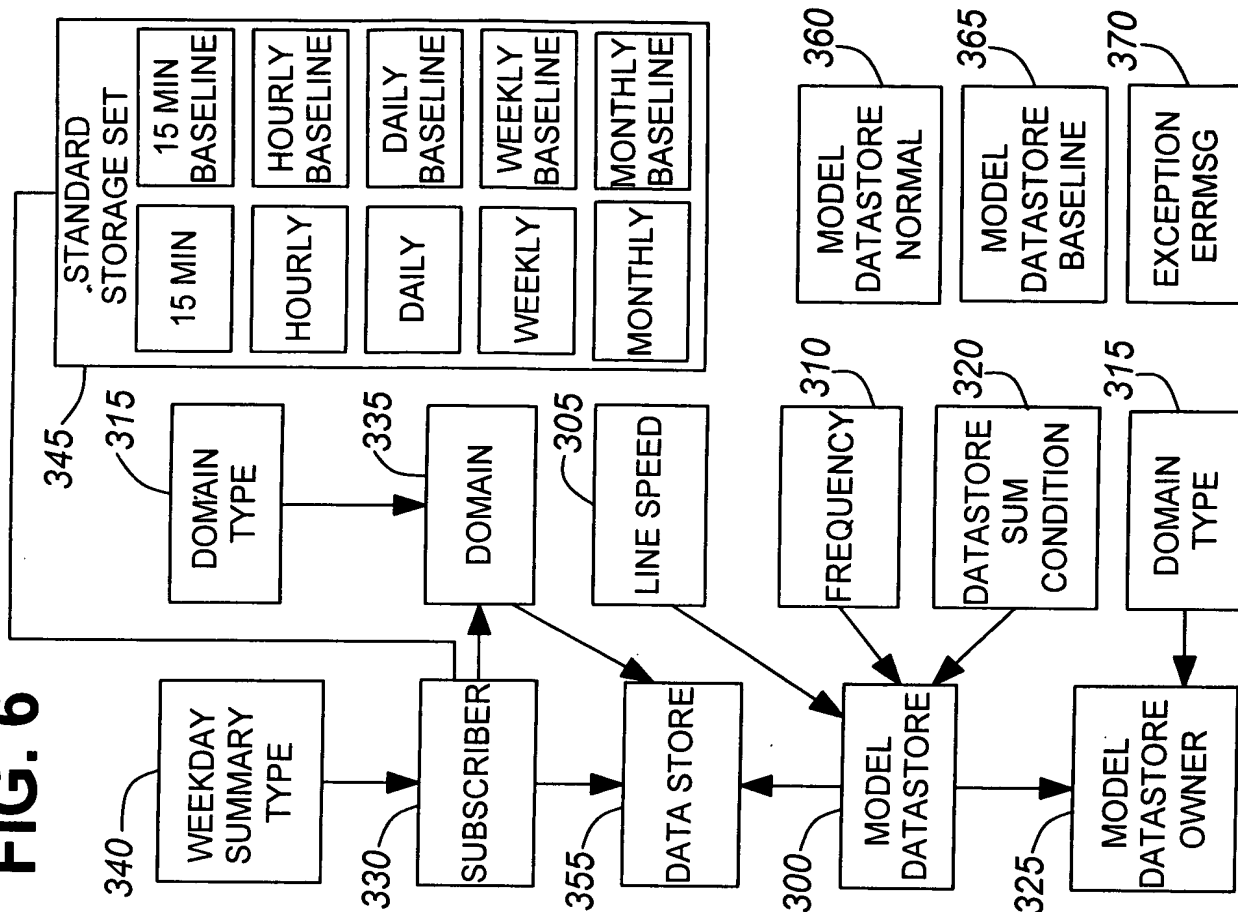
numAudioBytes: 0  
numVideoBytes: 0  
numCachedBytes: 7413  
pageLoadTime: 932  
totalTransferTime: 1352  
totalNetworkRTT: 10  
totalConnectTime: 10  
totalDNSLookupTime: 0  
applicationTransferTime: 0  
audioTransferTime: 0  
imageTransferTime: 420  
textHtmlTransferTime: 932  
textPlainTransferTime: 0  
textXmlTransferTime: 0  
textOtherTransferTime: 0  
videoTransferTime: 0  
contentThroughput: 14844.7  
applicationThroughput: 0  
audioThroughput: 0  
imageThroughput: 17650  
textHtmlThroughput: 12626.6  
textPlainThroughput: 0  
textXmlThroughput: 0  
textOtherThroughput: 0  
videoThroughput: 0

**FIG. 5B**

# FIG. 6

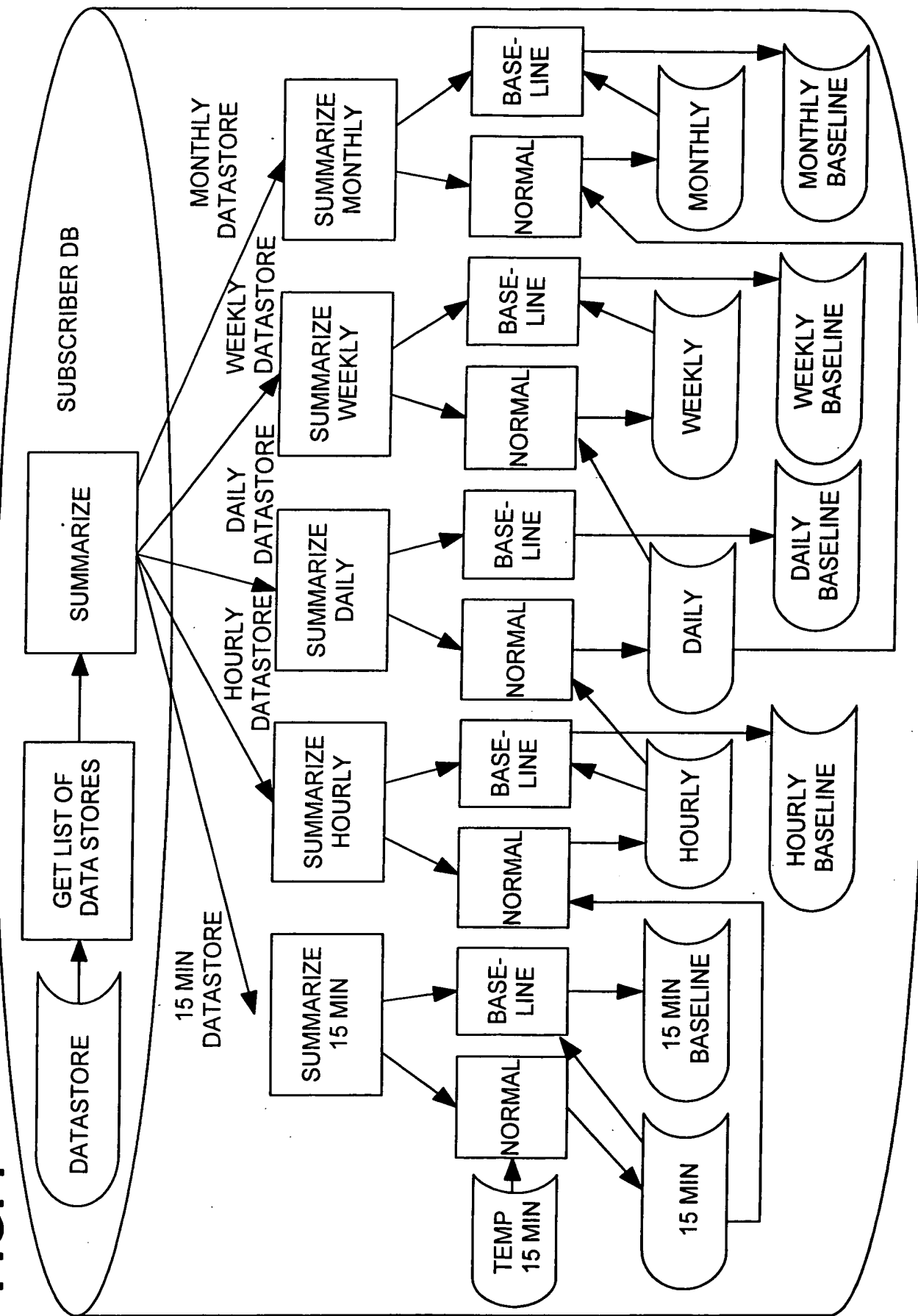
350

SPEED STORAGE SET									
15 MIN 28 K	HOURLY 28 K	HOURLY 28 K	15 MIN 28 K B	HOURLY 28 K B	HOURLY 28 K B	DAILY 28 K	DAILY 28 K B	DAILY 28 K	DAILY 28 K B
DAILY 28 K B	WEEKLY 28 K	WEEKLY 28 K B	WEEKLY 28 K	HOURLY 56 K B	HOURLY 56 K B	HOURLY 56 K	MONTHLY 56 K B	HOURLY 56 K	MONTHLY 56 K B
15 MIN 56 K	HOURLY 56 K	HOURLY 56 K	15 MIN 56 K B	HOURLY 56 K B	HOURLY 56 K B	DAILY 56 K	DAILY 56 K B	DAILY 56 K	MONTHLY 56 K B
DAILY 56 K B	WEEKLY 56 K	WEEKLY 56 K B	WEEKLY 56 K	HOURLY 128 K B	HOURLY 128 K B	HOURLY 128 K	MONTHLY 128 K B	HOURLY 128 K	MONTHLY 128 K B
15 MIN 128 K	HOURLY 128 K	HOURLY 128 K	15 MIN 128 K B	HOURLY 128 K B	HOURLY 128 K B	DAILY 128 K	DAILY 128 K B	DAILY 128 K	MONTHLY 128 K B
DAILY 128 K B	WEEKLY 128 K	WEEKLY 128 K B	WEEKLY 128 K	HOURLY <384 K	HOURLY <384 K B	HOURLY <384 K	MONTHLY <384 K B	HOURLY <384 K	MONTHLY <384 K B
15 MIN <384 K	HOURLY <384 K	HOURLY <384 K	15 MIN <384 K B	HOURLY <384 K B	HOURLY <384 K B	DAILY <384 K	DAILY <384 K B	DAILY <384 K	MONTHLY <384 K B
DAILY <384 K B	WEEKLY <384 K	WEEKLY <384 K B	WEEKLY <384 K	HOURLY >384 K B	HOURLY >384 K B	HOURLY >384 K	MONTHLY >384 K B	HOURLY >384 K	MONTHLY >384 K B
15 MIN >384 K	HOURLY >384 K	HOURLY >384 K	15 MIN >384 K B	HOURLY >384 K B	HOURLY >384 K B	DAILY >384 K	DAILY >384 K B	DAILY >384 K	MONTHLY >384 K B
DAILY >384 K B	WEEKLY >384 K	WEEKLY >384 K B	WEEKLY >384 K	HOURLY >384 K B	HOURLY >384 K B	HOURLY >384 K	MONTHLY >384 K B	HOURLY >384 K	MONTHLY >384 K B

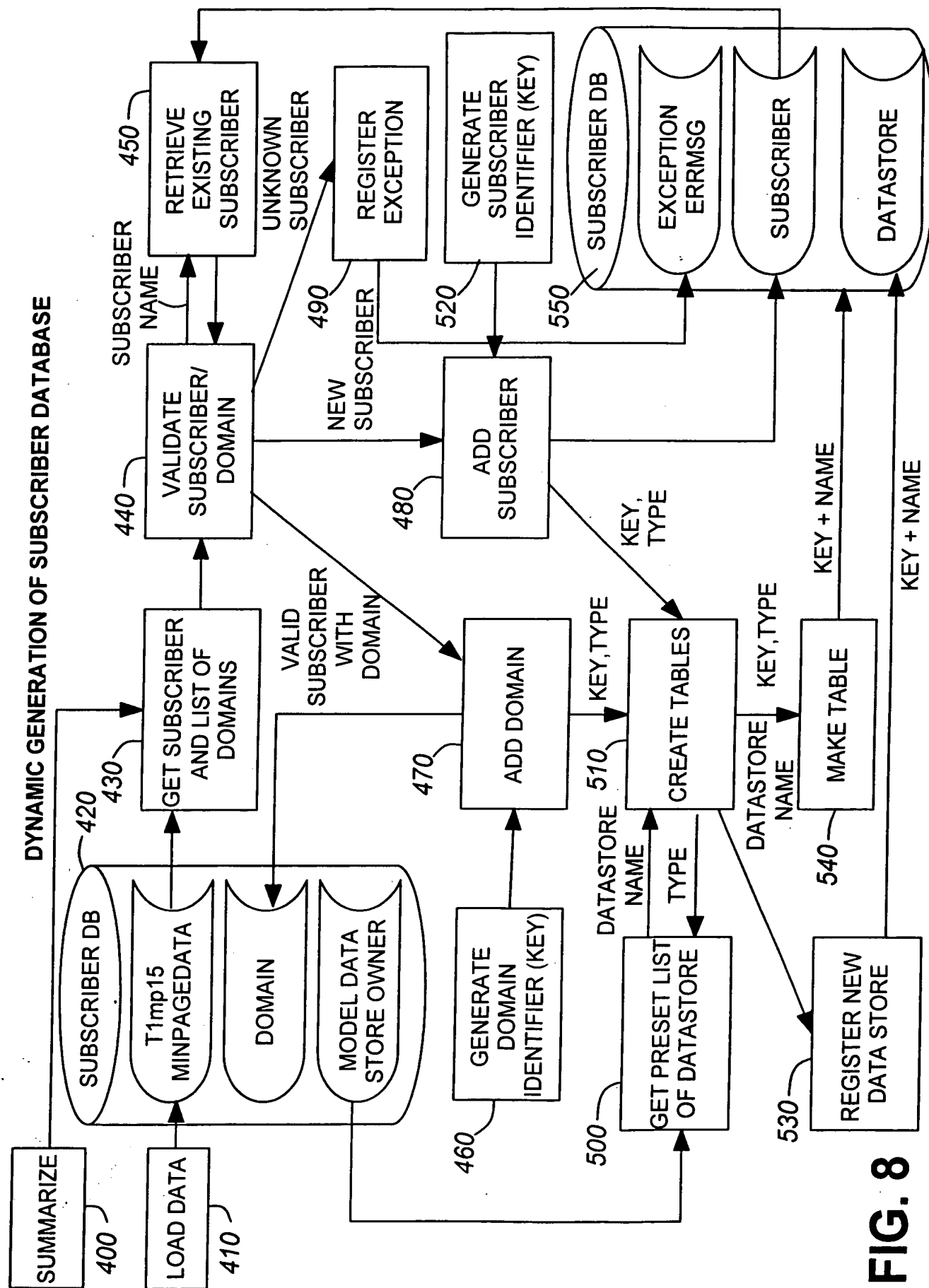


# FIG. 7

## DATABASE SUMMARIZATION PROCESS







# DATA ACCESS PATH-SECURITY

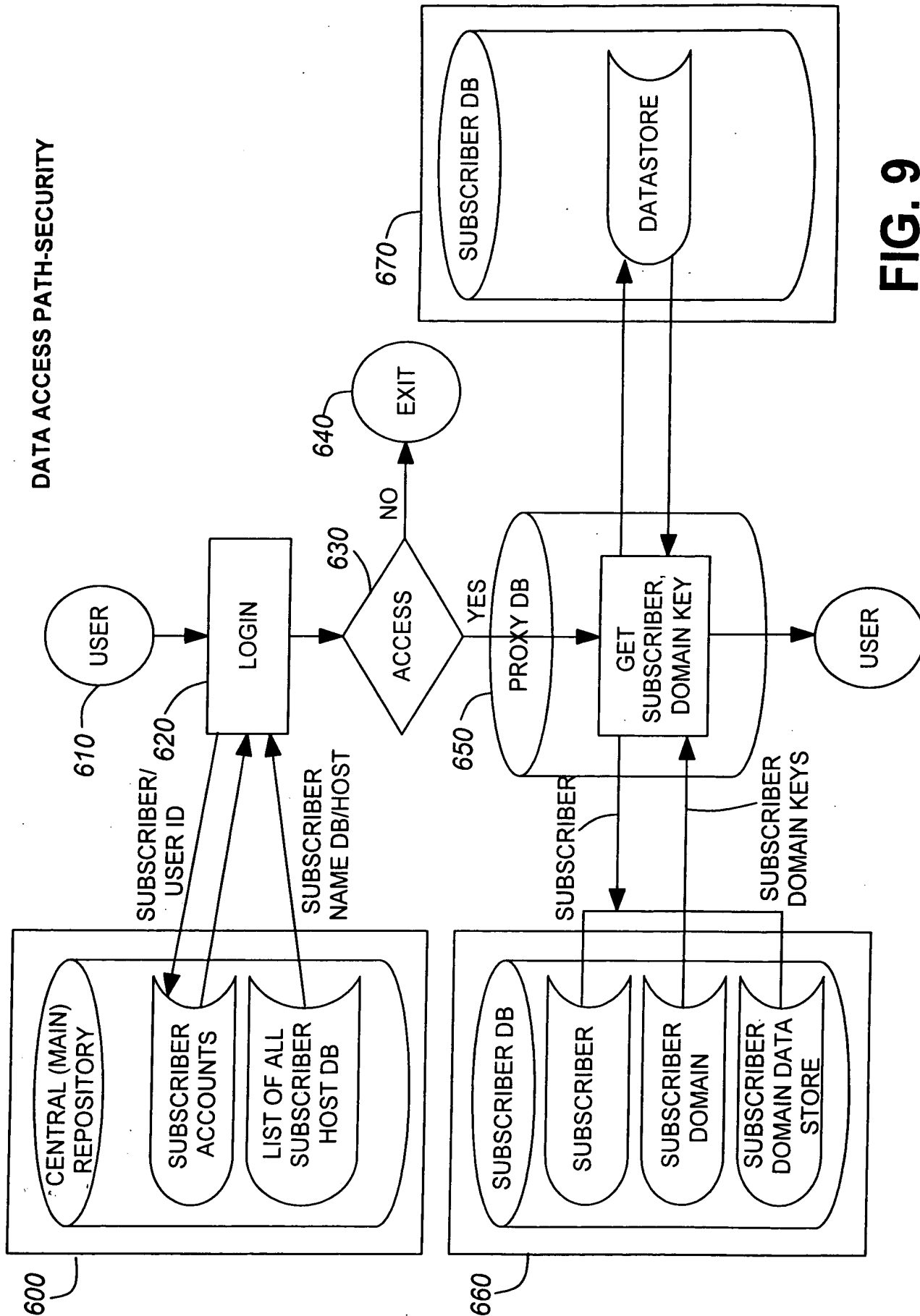


FIG. 9